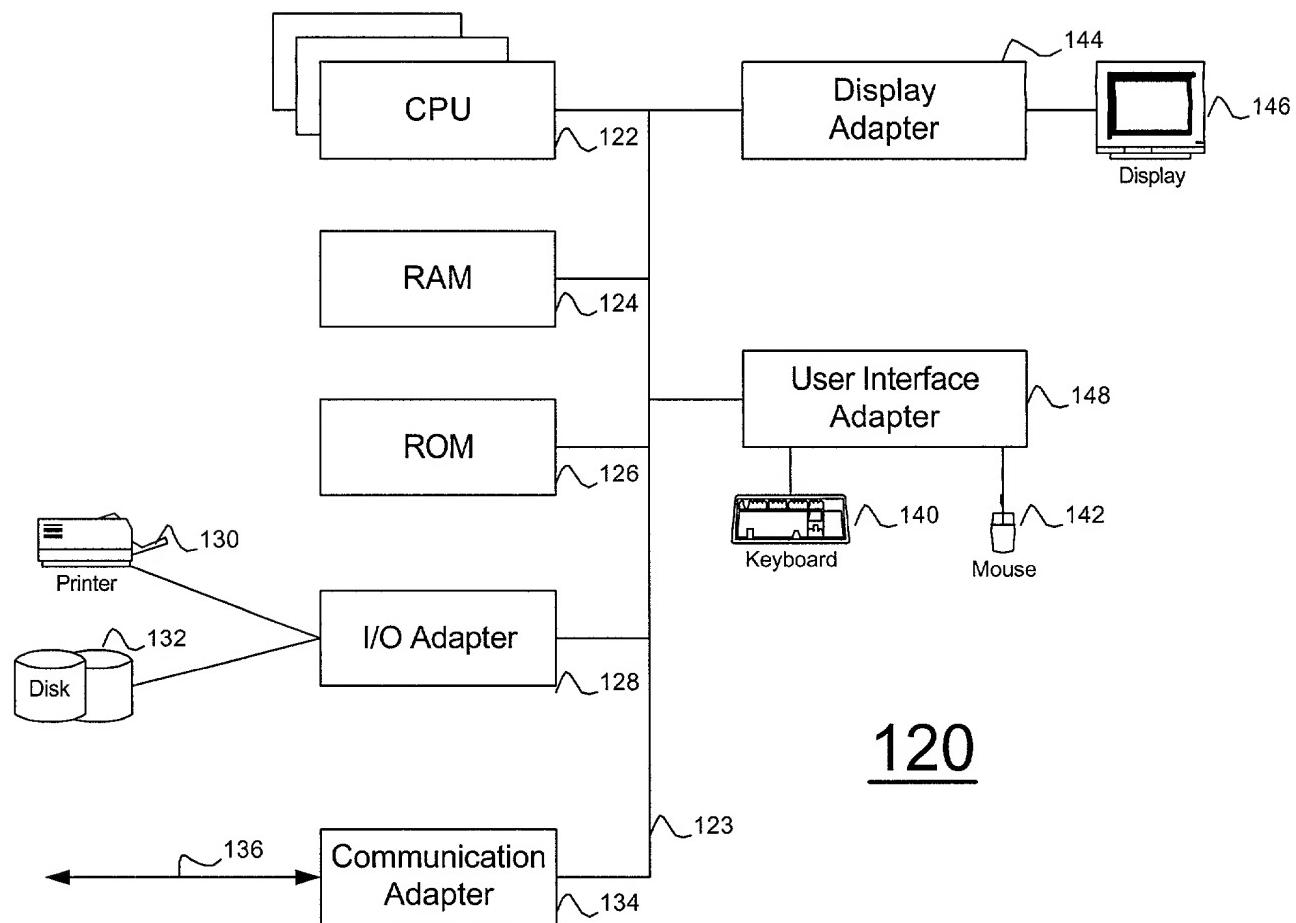


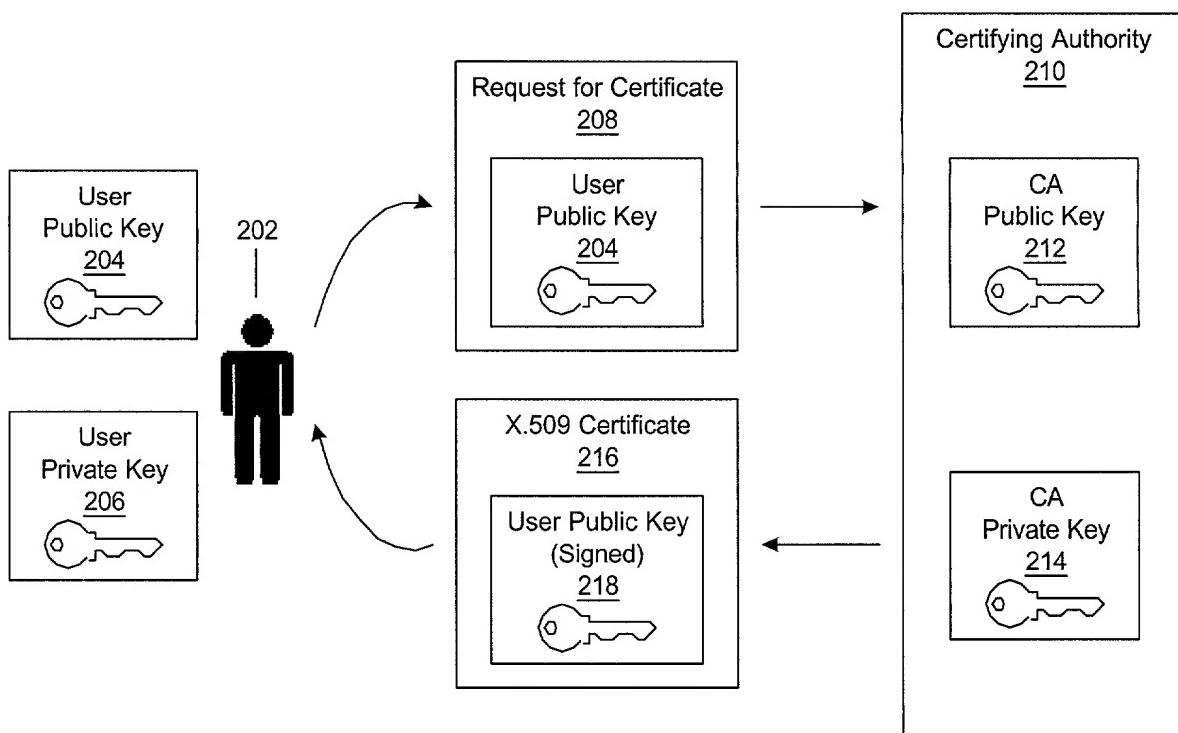
Prior Art

Figure 1A



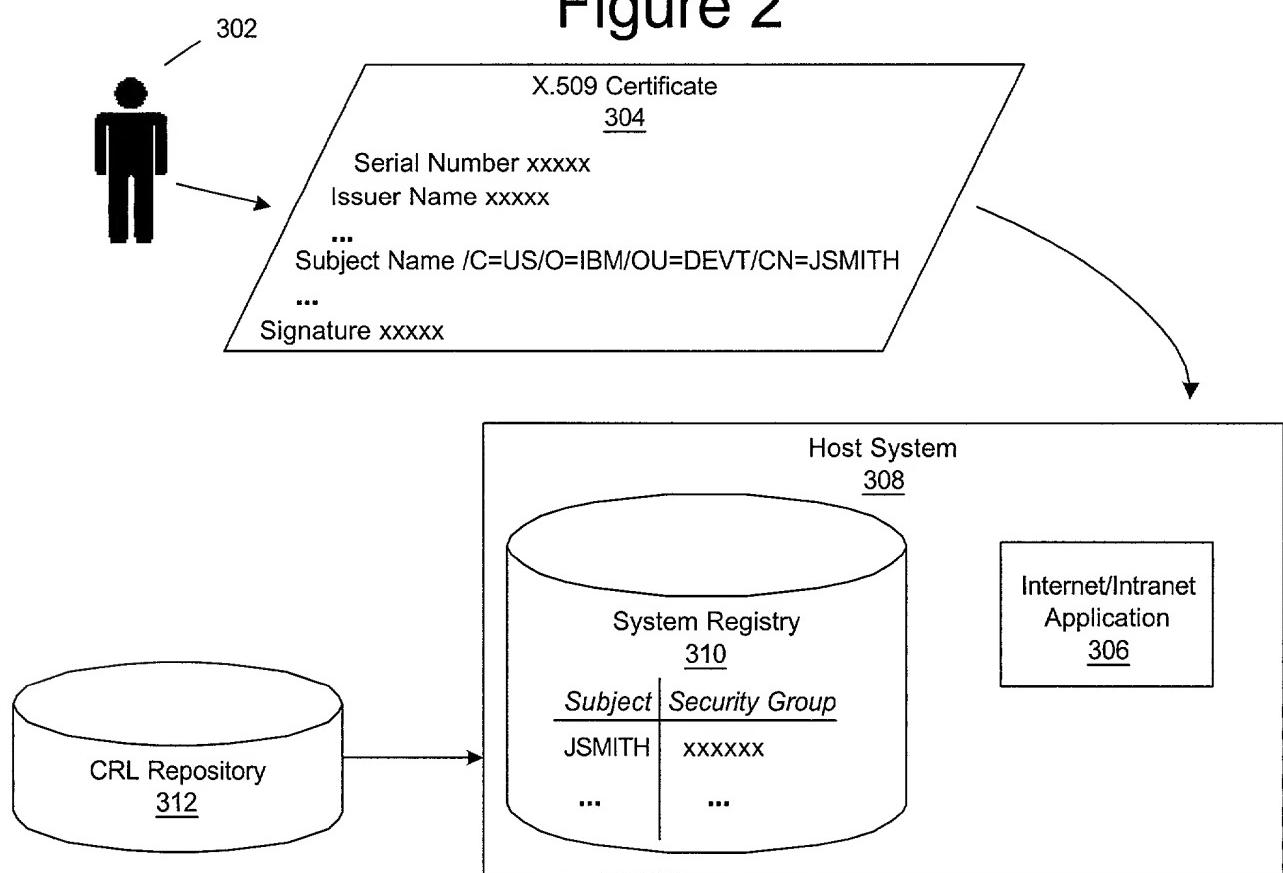
Prior Art

Figure 1B



Prior Art

Figure 2



Prior Art

Figure 3

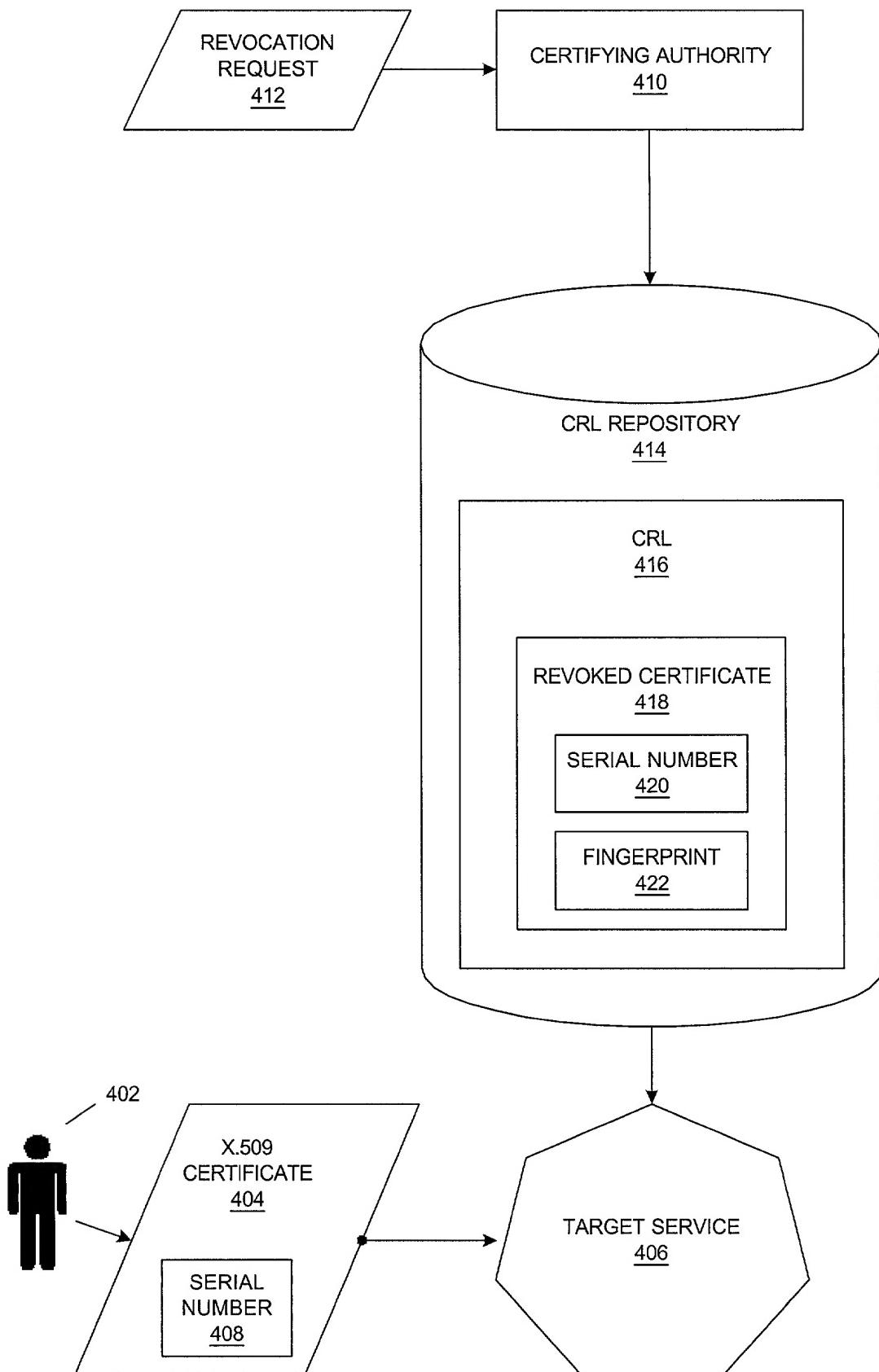


Figure 4

```

Certificate ::= SEQUENCE {
    tbsCertificate           TBSCertificate,
    signatureAlgorithm       AlgorithmIdentifier,
    signature                BIT STRING }

TBSCertificate ::= SEQUENCE {
    version                 [0] Version DEFAULT v1,
    serialNumber            CertificateSerialNumber,
    signature               AlgorithmIdentifier,
    issuer                  Name,
    validity                Validity,
    subject                 Name,
    subjectPublicKeyInfo    SubjectPublicKeyInfo,
    issuerUniqueID          [1] IMPLICIT UniqueIdentifier OPTIONAL,
    subjectUniqueID         [2] IMPLICIT UniqueIdentifier OPTIONAL,
    extensions              [3] Extensions OPTIONAL }

Version ::= INTEGER { v1(0), v2(1), v3(2) }

CertificateSerialNumber ::= INTEGER

Validity ::= SEQUENCE {
    notBefore               Time,
    notAfter                Time }

Time ::= CHOICE {
    utcTime                 UTCTime,
    generalTime              GeneralizedTime }

UniqueIdentifier ::= BIT STRING

SubjectPublicKeyInfo ::= SEQUENCE {
    algorithm               AlgorithmIdentifier,
    subjectPublicKey        BIT STRING }

Extensions ::= SEQUENCE SIZE (1..MAX) OF Extension

Extension ::= SEQUENCE {
    extnID                  OBJECT IDENTIFIER,
    critical                BOOLEAN DEFAULT FALSE,
    extnValue                OCTET STRING }

```

Priort Art

Figure 5A

```

CertificateList ::= SEQUENCE {
    tbsCertList          TBSCertList,
    signatureAlgorithm   AlgorithmIdentifier,
    signatureValue       BIT STRING }

TBSCertList ::= SEQUENCE {
    version              Version OPTIONAL,
    signature             AlgorithmIdentifier,
    issuer               Name,
    thisUpdate            Time,
    nextUpdate            Time OPTIONAL,
    revokedCertificates   SEQUENCE OF SEQUENCE {
        userCertificate     CertificateSerialNumber,
        revocationDate      Time,
        crlEntryExtensions  Extensions OPTIONAL
    } OPTIONAL,
    crlExtensions         [0]      EXPLICIT Extensions OPTIONAL
}

```

Priort Art

Figure 5B

```

certFingerprint ::= SEQUENCE OF SEQUENCE {
    algorithm           AlgorithmIdentifier,
    fingerprint         octet string
}

```

Figure 6

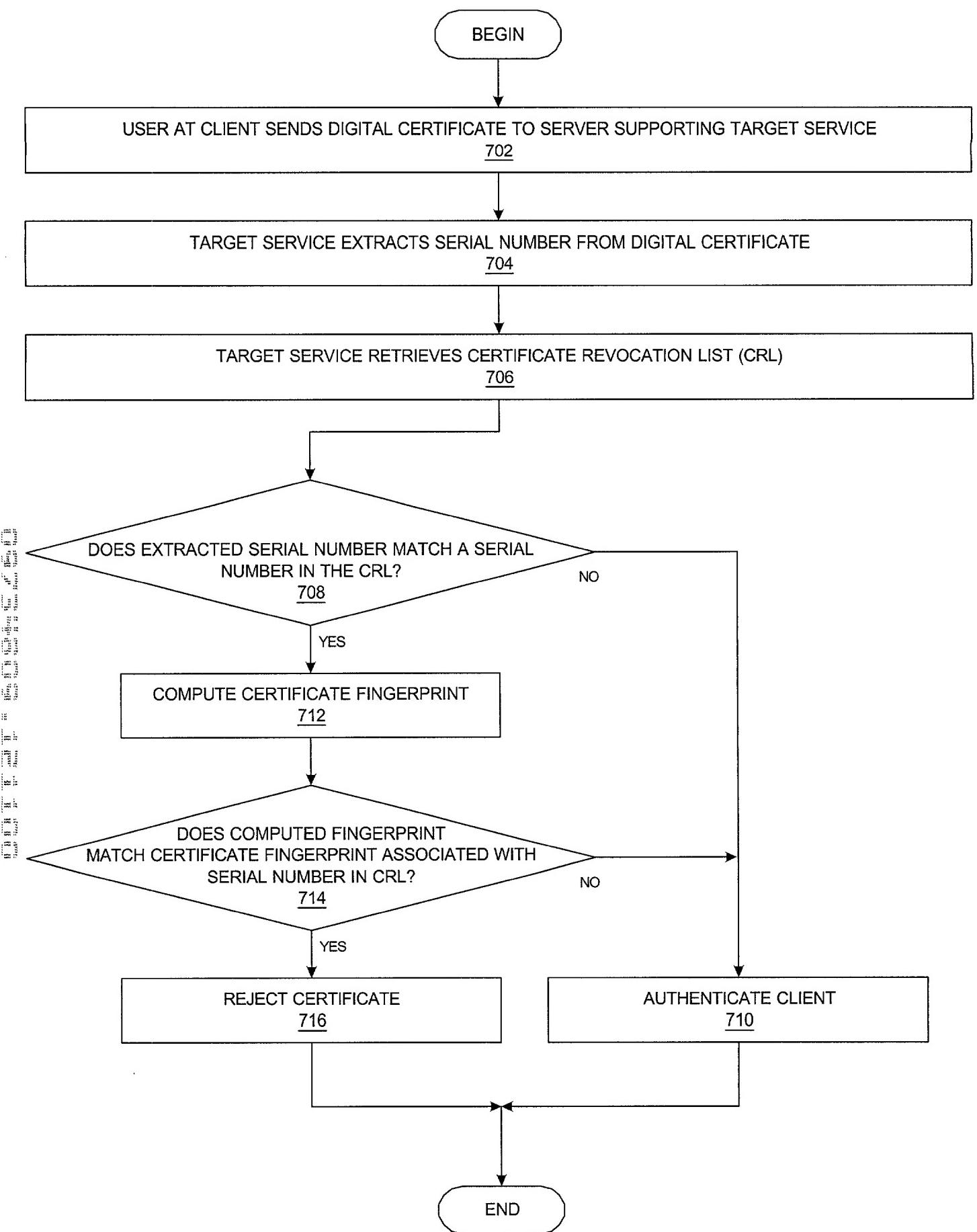


Figure 7